



CLAIMS IN PLAIN TEXT FORM

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36. (Presently amended) A composite body exhibiting a photocatalytic effect consisting essentially of

a core particle consisting of a material without deleterious effect on a photocatalytic reaction; and

a multiplicity of nanoparticles, each less than 33% the diameter of the core particles, of photocatalytic material upon the surface of the core particle, the photocatalytic material being less than 20% by weight of (i) the combined multiplicity of photocatalytic material nanoparticles and (ii) the core particle.

37. (Original) The composite body according to claim 36

wherein the core particle is less than 1 centimeter in diameter; and wherein each of the multiplicity of nanoparticles is of diameter less than 100 nanometers.

38. (Presently amended) The composite body according to claim 36 wherein the core particle's material without deleterious effect on a photocatalytic reaction consists essentially of

a material selected from the group consisting of silicates and carbonates including calcined clay and wollastonite, metal oxides, and inorganic pigments.

39. (Presently amended) The composite body according to claim 36 wherein the core particle's material consists of

a polymer.

40. (Presently amended) The composite body according to claim 39 wherein the core particle's polymer material consists of

a polymer selected from the group consisting of acrylics, acrylonitriles, acrylamides, butenes, epoxies, fluoropolymers, melamines, methacrylates, nylons, phenolics, polyamids, polyamines, polyesters, polyethylenes, polypropylenes, polysulfides, polyurethanes, silicones, styrenes, terephthalates, and vinyls.

41. (Original) The composite body according to claim 39

wherein the polymer core particle is less than 1 centimeter in diameter.

42. (Presently amended) The composite body according to claim 36 wherein the photocatalytic material of the multiplicity of nanoparticles is selected from the group of metal compound semiconductors consisting of

titanium, zinc, tungsten and iron, and oxides of titanium, zinc, tungsten and iron, and strontium titanates.

43. (Presently amended) The composite body according to claim 42 wherein the metal compound semiconductor photocatalytic material is combined with a metal or metal compound selected from the group consisting of vanadium, iron, cobalt, nickel, copper, zinc, ruthenium, rhodium, silicon, tin, palladium, gold, platinum, and silver.

44. (Presently amended) The composite body according to claim 36 wherein the photocatalytic material is selected from the group of metal compound semiconductors consisting of anatase titanium dioxide and zinc oxide.

45. (Original) The composite body according to claim 36 wherein the photocatalytic material consists of particles of a diameter from 1 nanometer to 100 nanometers.

46. (Original) The composite body according to claim 36 wherein the photocatalytic material consists of particles of diameter from 1 nanometer to 50 nanometers.

47. (Original) The composite body according to claim 36 wherein the photocatalytic material consists of particles of diameter from 1 nanometer to 10 nanometers.

48. (Original) The composite body according to claim 36 wherein the core particles consist of particles of diameter from 100 nanometers to 1 centimeter.

49. (Original) The composite body according to claim 36 wherein weight of the photocatalytic material of the combined multiplicity of nanoparticles is less than 10% of weight of the core particle.

50. (Presently amended) A ~~great~~ multiplicity of composite bodies in accordance with claim 36 incorporated in amount from 0.001% to 85% by volume within a composition suitable for use as an additive to a coating or a coating.

51. (Presently amended) The great multiplicity of composite bodies in accordance with claim 50 incorporated in a composition that further includes one or more materials selected from the group of building materials consisting of concrete, cement, ceramic, stucco, hard flooring, masonry, roofing shingles, wall shingles, building siding and swimming pool surfaces.

52. (Original) The great multiplicity of composite bodies in accordance with claim 50 incorporated in a composition that is effective as an anti-fouling coating.

53. (Original) The composite body according to claim 36 effective in killing by contact any of algae, bacteria, mold or fungus.

54. (Presently amended) The composite body according to claim 36 wherein, at a proportion by weight of the photocatalytic material in the composite body of less than 10%, the efficacy of the photocatalytic material within the composite body to kill by contact algae, bacteria, mold, and fungus upon the composite body is at least one-half (.5) as good as is the efficacy of this same photocatalytic material to kill in purest form, making that at least equal killing effect is realized with a five to one (5:1) reduction in the amount of photocatalytic material when this photocatalytic material is upon the surfaces of the composite body.